

**WHAT IS CLAIMED IS:**

1. A method for preparing a carbon with enhanced electronic conductivity comprising  
oxidatively polymerizing with an oxidizing agent comprising ozone a monomer of a conducting polymer containing hetero atoms with particulate carbonaceous material to form a conducting polymer-grafted carbonaceous material.
2. The method of claim 1, wherein the carbonaceous material is carbon black, graphite, nanocarbons, fullerenes, fullerinic material, finely divided carbon, or mixtures thereof.
3. The method of claim 1, wherein the carbonaceous material is carbon black.
4. The method of claim 1, wherein the monomer of a conducting polymer is an amino aryl or a nitrogen heterocycle.
5. The method of claim 1, wherein the oxidatively polymerizing comprises adding ozone to a mixture of the carbonaceous material and the monomer of the conducting polymer.
6. The method of claim 5, wherein the mixture of the carbonaceous material and the monomer of the conducting polymer further comprises an acid solvent to form a slightly acidic environment.
7. The method of claim 6, wherein the slightly acidic environment is a pH of about less than 7.
8. The method of claim 6, wherein the slightly acidic environment is a pH of about 3 to about 4.
9. The method of claim 1, wherein the conducting polymer is polyaniline, polypyrrole, polyfuran, polythiophene, poly(p-phenylene-oxide), poly(p-phenylene-sulfide), substituted conducting polymers, or a mixture thereof.
10. The method of claim 1, further comprising metallizing the conducting polymer-grafted carbonaceous material.

11. The method of claim 10, wherein the metallizing comprises adding a metal-containing material to the conducting polymer-grafted carbonaceous material.
12. The method of claim 11, wherein the metallizing further comprises adding a reducing agent.
13. The method of claim 10, wherein the metallizing is plantinizing.
14. The method of claim 12, wherein the reducing agent is formaldehyde, sodium borohydride, hydrogen, hydrazine, hydroxyl amine, or a mixture of reducing agents.
15. The method of claim 11, wherein the metal-containing material is chloroplatinic acid, platinum nitrate, platinum halides, platinum cyanide, platinum sulfide, organoplatinum salts, or a mixture thereof.
16. A composition made by the method of claim 1.